BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work :-	**Improvements to Building Building and Civil Works at Mallasandra Colony School in Mallasandra Ward No.13**
Estimated Cost :-	**30.00 lakhs**

Sl. No	Description of work	Unit	Mesurement No	L	B	D	Qty	Rate	Amount
1	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms).(Pg.No.25, It.No.5.34)								
	ground floor-front side	sqm	1	1	18.80	5.30	0.20	19.92	
			1	1	18.80	2.25	0.20	8.46	
							Total qty.	28.38	59.40	1686.00
	Basic Rate =		55.00						
	Area Wieghtage (8%)		4.40						
	Total Rate per Unit =		59.40						
2	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs. with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No.12 I.No.4.2)								
		cum	1	1	18.80	5.30	0.15	14.94	
			1	1	18.80	2.25	0.15	6.34	
							Total qty.	21.280	5449.68	115969.00
	Basic Rate =		5046.00						
	Area Wieghtage (8%)		403.68						
	Total Rate per Unit =		5449.68						
3	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P.No.12 I.No.4.5)								
		cum	1	1	18.80	5.30	0.10	9.96	
			1	1	18.80	2.25	0.10	4.23	
	Roof		1	1	19.26	5.76	0.10	11.09	
							Total qty.	25.280	5985.36	151310.09
	Basic Rate =		5542.00						
	Area Wieghtage (8%)		443.36						
	Total Rate per Unit =		5985.36						

Scanned by CamScanner

4	Providing and laying flooring using prepolished, water cut/ gang saw 19mm thick granite using silver grey granite/Multy red/ Ruby red/ Black/ Hassan Green granite of width not less than 1200mm laid over existing floor in CM 1:4 at 20mm thick (average) and pointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying pop on finished surface cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P.No.12 I.No.4.5) (P.No.103									
		sqm	1	1	18.80	5.30		99.64		
	Skirting		1	1	48.20	0.15		7.23		
			1	1	18.80	2.25		42.30		
	Skirting		1	1	42.10	0.15		6.31		
							Total qty.	155.48	2828.52	439778.00
	Basic Rate =	2619.00								
	Area Wieghtage (8%)	209.52								
	Total Rate per Unit =	2828.52								
5	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including primary coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing surface even and sand paper smooth, cost of materials, labour, complete ass per specifications. (page no. 117 item no. 15 .49-1 S.R 2016-17)									
		Sqm	1	2	18.80	2.90		109.04		
			1	2	5.30	2.90		30.74		
	anganavadi		1	1	19.00	3.00		57.00		
			1	3	6.60	3.00		59.40		
	shelfs		1	8	1.60	0.45		5.76		
								261.94		
	deduct for openings									
	windows		1	12	1.20	0.90		12.96		
	doors		1	3	2.10	1.00		6.30		
	doors		1	3	1.20	2.10		7.56		
	.		1	4	0.90	0.60		2.16		
							(-)	28.98		
	Basic Rate =	71.00						232.96	76.68	17863.00
	Area Wieghtage (8%)	5.68								
	Total Rate per Unit =	76.68								

Scanned by CamScanner

6	Providing and applying two coats of wall putty to inside plaster walls and ceiling using white cement putty. Scapping and leveling the syurface using steel blade and preparing the surface even and smooth by using different grade, sand papers including cost of all materilas, cost of labour, scaffolding etc.., complete as per specification **(page no 125-Item No 15.106)**									
	Ground Floor	Sqm								
	10% qty as per inside wall painting work							23.30		
	Basic Rate =		56.00					**23.30**	**60.48**	**1408.94**	**0.01**
	Area Wieghtage (8%)		4.48							
	Total Rate per Unit =		60.48							
7	Providing and finishing External walls in two coats over one coat of 100% acrylic silicon glaze primer with antifungal paint for coat of approved brand and shade to give an even shade after thouroughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materilas , labour, complete as per specification. (page no 125-Item No 15.104)									
		Sqm	1	2	19.26	3.00		115.56		
			1	2	5.76	3.00		34.56		
	anganavadi		1	1	19.00	3.00		57.00		
			1	3	6.60	3.00		59.40		
								266.52		
	deduct for openings									
	windows		1	12	1.20	0.90		12.96		
	doors		1	3	2.10	1.00		6.30		
	doors		1	3	1.20	2.10		7.56		
			1	4	0.90	0.60		2.16		
							(-)	28.98		
	Basic Rate =		71.00					237.54	76.68	18215.00
	Area Weightage @ 8% =		5.68							
	Total Rate per Unit =		76.68							
8	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design. drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. (Page No.32, Item No.7.9)									

Scanned by CamScanner

	{Rate=Basic rate + 6% of B.R(A.W)=85.00+5.10=90.10/kg}									
				1	23.30	2.45		57.08		
								57.08	sqm	
							(21kg/sqm)	1199.00	kgs	
							Total qty.	**1199.00**	**84.24**	**101004.00**
	Basic Rate =		78.00							
	Area Wieghtage (8%)		6.24							
	Total Rate per Unit =		84.24							
9	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masnory (quoin, Jamb, closer blocks) with solid blocks of size 400X150X200cms confirming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffoldin, curing complete as per specifications. (Pg.No.25, It.No.5.34)									
	{Rate=Basic rate + 6% of B.R(A.W)=892.00+53.52=945.52/sqm}									
	alround	sqm	1	1	23.20		0.20	4.64		
	anganavadi		1	1	19.00		3.00	57.00		
	shelfs		1	6	1.50		0.45	4.05		
	deduct							*65.69*		
	doors		1	3	1.20		2.10	7.56		
			1	4	0.90		0.60	2.16		
							(-)	*9.72*		
							Total qty.	**55.97**	**979.56**	**54826.00**
	Basic Rate =		907.00							
	Area Wieghtage (8%)		72.56							
	Total Rate per Unit =		979.56							
10	KSRB 15.3.10: Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..(P.No114-I.No.15.18)									
	Qty vide previous item	sqm						55.97		
							Total qty.	55.97	224.64	12573.00
	Basic Rate =		208.00							
	Area Wieghtage (8%)		16.64							
	Total Rate per Unit =		224.64							
11	KSRB 15.3.1: Providing 12mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..(P.No113-I.No.15.11)									

Scanned by CamScanner

		sqm	qty vide previous item no.2					55.97		
							Total qty.	55.97	162.00	9067.00
	Basic Rate =	150.00								
	Area Wieghtage (8%)	12.00								
	Total Rate per Unit =	162.00								
12	KSRB 7.7: Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully open able as per approved drawings using Z angles of 25x33x3mm, weighing 1.419Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm thick reeded glass with teakwood beading of required size, all steel section should confirm to I.S. 7452:1990, 4nos, of holdfasts of approved size section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification NO. KBS 7.12.1 / 7.12.2 / 7.12.3 / 7.12 Page No. 32/ Item No. 7.7/ PWD SR 2016-17										
	doors	Sqm	1	3	1.20		2.10	7.56		
			1	4	0.90		0.60	2.16		
							Total qty.	9.72	3812.40	37057.00
	Basic Rate =	3530.00								
	Area Wieghtage (8%)	282.40								
	Total Rate per Unit =	3812.40								
13	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (Pg No.121, It No..15.73)									
	for grill work	Sqm		2.25	23.30	2.45		128.44		
						Total qty.		128.44	31.32	4023.00
	Basic Rate =	29.00								
	Area Wieghtage (8%)	2.32								
	Total Rate per Unit =	31.32								
14	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications (Pg no.120, It.no.15.74)									

Scanned by CamScanner

for grill work			2.25	23.30	2.45		128.44		
						Total qty.	128.44	88.56	11375.00
Basic Rate =	82.00								
Area Wieghtage (8%)	6.56								
Total Rate per Unit =	88.56								

15 KSRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making laster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. (P.51, I.9.11)

for Doors	sqm	1	3	1.20	0.12	2.10	0.90		
Windows		1	16	0.90	0.10	1.20	1.72		
						Total qty.	2.62	111083.40	291039.00
Basic Rate =	102855.00								
Area Wieghtage (8%)	8228.40								
Total Rate per Unit =	111083.40								

16 Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 30mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) (P.46, I.9.21).

for Doors	sqm	1	3	1.20		2.10	7.56		
						Total qty.	7.56	4472.28	33810.00
Basic Rate =	4141.00								
Area Wieghtage (8%)	331.28								
Total Rate per Unit =	4472.28								

17 Providing and fixing in position Honne wood fully panelled shutters for windows with styles and rails of 35mm. thick, 75mm wide in two halves with panels of 25mm thick including cost of materials, labour charges, HOM of machineries complete as per specifications. (P.54, I.9.44)

for Doors	sqm	1	16	0.90		1.20	17.28		
						Total qty.	17.28	5279.04	91222.00
Basic Rate =	4888.00								
Area Wieghtage (8%)	391.04								
Total Rate per Unit =	5279.04								

18 Hinges 5" heavy duty(Pg no.XIV Sl.no.395)

	each	2	3			6.00		
					Total qty.	6.00	37.00	222.0

19 Handles powder coated 150mm (Pg no.XIV Sl.no.393)

	each	2	3			6.00		
					Total qty.	6.00	60.00	360.0

Scanned by CamScanner

20	Tower bolt 300mm long (Pg no.XIV Sl.no.412)									
		each	2	3				6.00		
							Total qty.	6.00	120.00	720.00
21	Door lock (Pg no.XIV Sl.no.391)									
		each	2	3				6.00		
							Total qty.	6.00	410.00	2460.00
22	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller)Page No 148/ Item No. 19.60 PWD SR 2016-17									
		Cum	1	1	23.00	7.25	0.45	75.03		
			1	1	15.00	15.00	0.45	101.25		
			1	1	20.00	9.00	0.45	81.00		
							Total qty.	257.28	326.16	83914.00
	Basic Rate =	302.00								
	Area Wieghtage (8%)	24.16								
	Total Rate per Unit =	326.16								
23	Providing, laying, spreading and compacting stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Complete as per specifications. MORTH Specification No.406 [P.No.158- It.No20.18]									
		Cum	1	1	23.00	7.25	0.15	25.01		
			1	1	15.00	15.00	0.15	33.75		
			1	1	20.00	9.00	0.15	27.00		
							Total qty.	85.76	1801.44	154491.00
	Basic Rate =	1668.00								
	Area Wieghtage (8%)	133.44								
	Total Rate per Unit =	1801.44								
24	KSRRB M600-1: Construction of dry lean cement Concrete mix CC1:5:10 with OPC cement @160kgs, with 25mm and down size graded grnite metal coarse aggragate at 0.86cum and fine aggregates @ 0.58cum sub-base over a prepared sub-grade with (Coarse and fine aggregate conforming to IS:383) aggregate cement ratio not to exceed 15:1 Aggregat gradiation after blending to be asper Table 600-1, cement content not to be less than 160kg/cum, optimum moisture content to be determined during trail length construction, concrete strength not to less than 10Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete s per specifications(It 22.1 & Page No.176)									

Scanned by CamScanner

		Cum	1	1	23.00	7.25	0.15	25.01		
			1	1	15.00	15.00	0.15	33.75		
			1	1	20.00	9.00	0.15	27.00		
							Total qty.	85.76	4061.88	348347.00
	Basic Rate =	3761.00								
	Area Wieghtage (8%)	300.88								
	Total Rate per Unit =	4061.88								
25	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum) ((P.No.177, I.No.22.6.1 of PW,P&IWTD SR 2016-17)									
		Cum	1	1	23.00	7.25	0.15	25.01		
			1	1	15.00	15.00	0.15	33.75		
			1	1	20.00	9.00	0.15	27.00		
							Total qty.	85.76	6335.28	543314.00
	Basic Rate =	5866.00								
	Area Wieghtage (8%)	469.28								
	Total Rate per Unit =	6335.28								
26	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery,screed vibratory,power Floater,blade and disc etc., with all lead and lift PWD SR 2016-17[P.No.177 -I.No.22.7]									
		Sqm	1	1	23.00	7.25		166.75		
			1	1	15.00	15.00		225.00		
			1	1	20.00	9.00		180.00		
							Total qty.	571.75	97.20	55574.00
	Basic Rate =	90.00								
	Area Wieghtage (8%)	7.20								
	Total Rate per Unit =	97.20								

Scanned by CamScanner

27	Providing groove cutting to concrete pavement for width of 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant, etc., including cleaning of grove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all amterials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.(P.No.178, l.No.22.8.1 of PW, P&IWTD SR 2016-17)									
		Rmt	1	2	7.25			14.50		
			1	1	15.00			15.00		
			1	2	9.00			18.00		
							Total qty.	47.50	124.20	5900.00
	Basic Rate =	115.00								
	Area Wieghtage (8%)	9.20								
	Total Rate per Unit =	124.20								
							Sub Total			2586119.01
							KRIDL charges			413779.00
							Miscelleneous & rounding off			101.99
							TOTAL			3000000.00
	(Rupees Thirty Lakhs Only)									

CERTIFICATE

1. *Certified that The work spot has been inspected by me and the work is necessary & site condition*
2. *Certified that the work is not split*
3. *Certified that the estimate is based on PW,P&IWTD Bangalore Circle SR of 2016-17*
4. *Certified that Adequate & necessary provisions have made in the estimate.*
5. *Certified that the above area comes under BBMP limit*

Asst Engineer
Project Division

Asst. Executive Engineer
Project Sub-Division
B.B.M.P

Executive Engineer
Project Division
Dasarahalli Zone

ಸಂ: EE/DS/17 ದಿನಾಂಕ: ದಿ: 18.11.17
ರೂ: 30.00 Lakh (ಮೂವತ್ತು ಲಕ್ಷಗಳು ಮಾತ್ರ)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿಬಿಎಂಪಿ.

ಸಂ: CE/TS/268/17-18 ದಿನಾಂಕ: 20/11/2017
ರೂ. Rs. 30.00 lakhs only/-
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

Scanned by CamScanner